Attorney Docket No. 401371/NIH DHHS Reference: E-105-99/0

Group Art Unit: 1653

Examiner: David Lukton

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

BURKE, Jr., et al.

Application No. 09/937,150

Filed: September 21, 2001

For: PHENYLALANINE DERIVATIVES

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

The Information Disclosure Statement is being filed:

within any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 of an international application; (c) before the mailing date of a first Office Action on the merits; or (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

Application No. 09/937,150 after (a), (b), (c) or (d) above, but before the mailing date of a final action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and includes one of: the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below). the fee of \$180 set forth in 37 CFR 1.17(p) (see "Fees" below). after the mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and on or before payment of the issue fee, and includes the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below). after the mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before payment of the issue fee, and within thirty days of receiving each item of information contained in the Information Disclosure Statement, and includes the Statement under 37 CFR 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below). NOTE: This is for original applications except applications for a design patent, filed on or after May 29, 2000, wherein a paper containing only an Information Disclosure Statement in compliance with 37 CFR 1.97 and 1.98 is being filed. Copies of the References \boxtimes Copies of the references listed on the enclosed Form 1449 are enclosed herewith. A copy of the foreign search report is enclosed herewith. The references listed on the enclosed Form 1449 were previously identified in the parent application(s) of the present application, and copies of the references were furnished at that time. Accordingly, additional copies of the references are not submitted herewith, so as not to burden the file with duplicate copies of references. The Examiner is respectfully requested to carefully review the references in accordance with the requirements set out in the Manual of Patent Examining Procedure. In accordance with 37 CFR 1.98(d), the details of the parent application(s) relied upon for an earlier filing date under 35 USC 120 in which copies of the references were previously furnished are set out below: U.S. APPLICATIONS Status (check one) U.S. APPLICATIONS U.S. FILING DATE PATENTED PENDING ABANDONED 2.

In re Appln. of BURKE, Jr., et al.

3.

In re Appln. of BURKE, Jr., et al. Application No. 09/937,150 Statement under 37 CFR 1.97(e) The undersigned hereby states that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement. The undersigned hereby states that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement. Statement under 37 CFR 1.704(d) П The undersigned hereby states that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement. Fees No fee is owed by the applicant(s). The IDS Fee of \$180 under 37 CFR 1.17(p) is enclosed herewith. Method of Payment of Fees Attached is a check in the amount of \$

Authorization to Charge Additional Fees

If any additional fees are owed in connection with this communication, please charge Deposit Account No. 12-1216. (A duplicate copy of this communication is enclosed for that purpose.)

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this communication is enclosed for that purpose.)

In re Appln. of BURKE, Jr., et al. Application No. 09/937,150

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Respectfully submitted,

LEYDIG, VOIT & MAYER, LTD.

Xavier Pillai, Ph.D. Registration No. 39,799

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Date: May 7, 2002

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Substitute for form 1449A/B/PTO

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known						
Application Number	09/937,150					
Filing Date	September 21, 2001					
First Named Inventor	Terrence R. Burke, Jr.					
Group Art Unit	1653					
Examiner Name	David Lukton					
Attorney Docket Number	401371/NIH					

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Examiner	Doc. No.	U.S. Patent Docui Application or	Kind	Name of Patentee or Applicant	Date of	Filing Date If
Initials		Patent Number	Code		Publication	Appropriate
	A 1	3,906,031		Carpino et al.		
	A 2	4,394,519		Carpino et al.		
	A 3	4,879,398		Getman et al.		
	A 4	5,182,263		Danho et al.		
	A 5	5,200,546		Burke, Jr. et al.		
	A6	5,272,268	ļ	Toyoda et al.		
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	A25	5,710,129		Lynch et al.		
	A26	5,710,173		Tang et al.		
	A27	5,712,395		App et al.		
	A28	5,753,687		Mjalli et al		
	A29	5,756,817		Choi et al.	1	
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	A34	5,792,771	1	App et al.	<u> </u>	
	A35	5,792,783	1	Tang et al.		
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	A39	5,849,742		App et al.	† †	
	A40	5,880,141		Tang et al.	 	

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<sup>A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).
An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).</sup>

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Group Art Unit	1653					
Examiner Name	David Lukton					
Attorney Docket Number	401371/NIH					

	U.S. PATENT DOCUMENTS								
		U.S. Patent Docum	ent						
Examiner Initials	Doc. No.	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Filing Date If Appropriate			
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Substitute for form 1449A/B/PTO				Application Number	09/937,150			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	September 21, 2001			
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	U.S. PATENT DOCUMENTS								
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Examiner Initials	Doc. No.	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of	Filing Date If			

				FOREIG	N PATENT DOCUMENTS			
		Foreign Patent Document				Trans	slation	
Examiner Initials	Doc. No.	Office	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Yes	No*+
	A56	PCT	WO 94/07913		Dobrusin et al.	04/14/94		
	A57	PCT	WO 95/11917		Bolton et al.	05/04/95		
	A58	PCT	WO 96/23813		Patel et al.	08/08/96		
	A59	PCT	WO 97/08193		Garcia-Echeverria et al.	03/06/97		
	A60	PCT	WO 00/73326		Roller et al.	12/07/00		

		OTHER - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Trans Yes	lation No*+
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	OTHER - NON PATENT LITERATURE DOCUMENTS		CJ
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A72	Gao et al., "Inhibition of Grb2 SH2 Domain Binding by Non-Phosphate-Containing Ligands. 2. 4-(2-Malonyl)phenylalanine as a Potent Phosphotyrosyl Mimetic, J. Med. Chem., Vol. 43, pp. 911-920, 2000		
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	A71 A72 A73 A74 A75 A76 A77 A78 A79 A80 A81	Doc. No. Doc. No. Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), votume-issue number (8), publisher, city and/or country where published. A 7 1 Cleland, "The Meerwein Reaction in Amino Acid Synthesis. II. An Investigation of Twenty-one Substituted Anilines", The Journal of Organic Chemistry", Vo., 34, pp. 744-747, March 1969 A 7 2 Gao et al., "Inhibition of Grb2 SH2 Domain Binding by Non-Phosphate-Containing Ligands. 2. 4-(2-Malonyl)phenylalanine as a Potent Phosphotyrosyl Mimetic, J. Med. Chem., Vol. 43, pp. 911-920, 2000 A 7 3 Furet et al., "Structure-Based Design and Synthesis of High Affinity Tripeptide Ligands of the Grb2-SH2 Domain, J. Med. Chem., Vol. 41, pp. 3442-3449, 1998 A 7 4 Tong et al., "Carboxymethyl-phenylalanine as a Replacement for Phosphotyrosine in SH2 Domain Binding", The Journal of Biological Chemistry, Vol. 273, pp. 20238-20242 August 7, 1998 A 7 5 Tulasne et al., "The Multisubstrate Docketing Site of the MET Receptor is Dispensable for MET-mediated RAS Signaling and Cell Scattering", Molecular Biology of the Cell, Vol. 10, pp.551-565, March 1999 A 7 6 Kim et al., "Dual Signaling Role of the Protein Tyrosine Phosphotase SHP-2 in Regulating Expression of Acute-Phase Plasma Proteins by Interleukin-6 Cytokine Receptors in Hepatic Cells", Molecular and Cellular Biology, Vol. 19, pp. 5326-5338, Aug. 1999 A 7 7 Nguyen et al., "Association of the Multisubstrate Docking Protein Gab1 with the Hepatocyte Growth Factor Receptor Requires a Functional Grb2 Binding Site Involving Tyrosine 1356", The Journal of Biological Chemistry, Vol. 272, pp. 20811-20819, August 15, 1997 A 7 8 Maina et al., "Uncoupling of Grb2 from the Met Receptor in Vivo Reveals Complex roles in Muscle Development", Cell, Vol. 87, pp. 531-542, Nov. 1, 1996 A 7 9 Ponzetto et al., "Specific Uncoupling of GRB2 from the Met Receptor", The Journal of Biological	Doc. No. PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the setting (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published. A 7 1 Cletand, "The Meerwein Reaction in Amino Acid Synthesis. II. An Investigation of Twenty-one Substituted Anilines", The Journal of Organic Chemistry", Vo., 34, pp. 744-747, March 1969 A 7 2 Gao et al., "Inhibition of Grb2 SH2 Domain Binding by Non-Phosphate-Containing Ligands. 2. 4-(2-Malonyl)phenylalanine as a Potent Phosphotyrosyl Mimetic, J. Med. Chem., Vol. 43, pp. 911-920, 2000 A 7 3 Furet et al., "Structure-Based Design and Synthesis of High Affinity Tripeptide Ligands of the Grb2-SH2 Domain, J. Med. Chem., Vol. 41, pp. 3442-3449, 1998 A 7 4 Tong et al., "Carboxymethyl-phenylalanine as a Replacement for Phosphotyrosine in SH2 Domain Binding", The Journal of Biological Chemistry, Vol. 273, pp. 20238-20242 August 7, 1998 A 7 5 Tulasne et al., "The Multisubstrate Docketing Site of the MET Receptor is Dispensable for MET-mediated RAS Signaling and Cell Scattering", Molecular Biology of the Cell, Vol. 10, pp.551-565, March 1999 A 7 6 Kim et al., "Dual Signaling Role of the Protein Tyrosine Phosphotase SHP-2 in Regulating Expression of Acute-Phase Plasma Proteins by Interleukin-6 Cytokine Receptors in Hepatic Cells", Molecular and Cellular Biology, Vol. 19, pp. 5326-5338, Aug. 1999 A 7 7 Nguyen et al., "Association of the Multisubstrate Docking Protein Gab1 with the Hepatocyte Growth Factor Receptor Requires a Functional Grb2 Binding Site Involving Tyrosine 1356", The Journal of Biological Chemistry, Vol. 272, pp. 20811-20819, August 15, 1997 A 7 8 Maina et al., "Uncoupling of Grb2 from the Met Receptor in Vivo Reveals Complex roles in Muscle Development", Cell, Vol. 87, pp. 531-542, Nov. 1, 1996 A 8 9 Ponzetto et al., "Specific Uncoupling of GRB2 from the Met Receptor", The Journal of Biological Chemistr

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Substitute for f	om 1449A/B/PTO			Application Number	09/937,150	
INIE		DISC	OCUDE	Filing Date	September 21, 2001	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				First Named Inventor	Terrence R. Burke, Jr.	
SIA	(IEMENI B	Y AP	PLICANI	Group Art Unit	1653	
	(Use as many shee	ts as nec	essary)	Examiner Name	David Lukton	
Sheet	5	of	10	Attorney Docket Number	401371/NIH	

		OTHER - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item	Tran	slation
Examiner Initials	Doc. No.	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Yes	No*+
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				First Named Inventor	Terrence R. Burke, Jr.	
SIA	TEMENT B	Y AP	PLICANI	Group Art Unit	1653	
	(Use as many shee	ts as nec	cessary)	Examiner Name	David Lukton	
Sheet	6	of	10	Attorney Docket Number	401371/NIH	

		OTHER - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item	Trar	slation	\dashv
Examiner Initials	Doc. No.	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Yes	No*	\neg
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